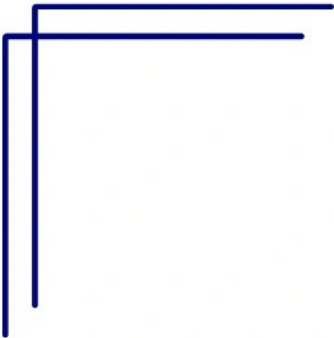




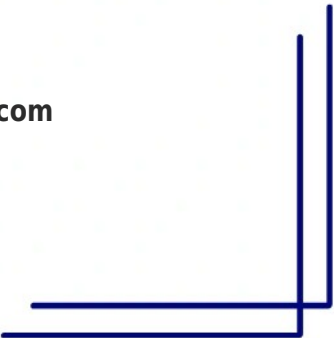
LABdex



Automatic Polarimeter LX105APR



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Description

Automatic Polarimeter LX105APR measures optical rotation, specific rotation, and sugar content with high precision. Featuring an advanced optical rotation system and a user-friendly touch screen, it delivers fast, reliable results for applications in medicine, food, fragrance, sugar, and related industries.

Specifications

Working wavelength	589.3 nm
Light source	LED Cold light source + High-precision interference filter
Measuring range	Optical rotation $\pm 89.99^{\circ}$
Brix	$\pm 259^{\circ}\text{Z}$
Minimum reading	0.001°
Indication error	$\pm 0.01^{\circ}$ ($- 45^{\circ} \leq \text{Optical rotation} \leq + 45^{\circ}$) $\pm 0.02^{\circ}$ (Optical rotation $< - 45^{\circ}$ or Optical rotation $> + 45^{\circ}$)
Repeatability	0.002° (Optical rotation)
Measurement mode	Optical rotation, specific rotation, concentration, sugar content
Temperature control range	15 - 35°C
Temperature control accuracy	$\pm 0.2^{\circ}\text{C}$
Display mode	8-inch TFT Color touch screen
Standard test tube	200 mm, 100 mm Ordinary type, 100 mm temperature control type
Light transmittance	1%
Data storage	1000 Units
Communication interface	USB connection, RS232 connection
Power	250 W
Power supply	220 V ± 22 V, 50 Hz ± 1 Hz
External dimension (L x W x H)	715 x 355 x 280 mm

Net weight	22 Kg
Packing dimension (L x W x H)	820 x 480 x 470 mm
Gross weight	32 Kg

Features

- Built-in Peltier temperature control
- Measurement modes include optical rotation, concentration, and sugar content
- LED Cold light source
- 8-inch TFT color touch screen with user-friendly operation
- Storage capacity for up to 1000 sample records
- USB and RS232 communication interfaces

Applications

- Automatic Polarimeter is used across medicine, food, agriculture, petroleum, fragrance, and health industries to analyze optically active substances such as sugars, antibiotics, vitamins, essential oils, and agricultural compounds.



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